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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,100	10/02/2003	Hyoung-Jo Jeon	1572.1153	8392

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STAAS & HALSEY LLP
SUITE 700
1201 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER

SMITH, JEFFREY S

ART UNIT	PAPER NUMBER
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2624

MAIL DATE	DELIVERY MODE
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11/16/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/676,100	Applicant(s) JEON ET AL.	
	Examiner Jeffrey S. Smith	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese application number 10-257084 by Atsushi Mochizuki et al. ("Mochizuki").

Mochizuki discloses an image processing system comprising:

- an image displaying apparatus 16 which displays an image;
- an imaging taking apparatus (2, 6) to take the image displayed in the image displaying apparatus;
- an optical characteristic changing apparatus 4 provided between the image taking apparatus and the image displaying apparatus, which changes optical characteristics of the displayed image;
- a lightpath changing apparatus 10 which changes a lightpath of the displayed image;
- a position controller 15 which controls the lightpath changing apparatus to change the lightpaths of the respective images; and
- an image processor 14 which receives a plurality of images (VA, VB') having respective changed lightpaths from the image taking apparatus and

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generates a processed image with a moire removed by correcting or superposing the size and brightness of the plurality of the images (see figures 1 and 16),

wherein the position controller moves the image displaying apparatus to a plurality of predetermined positions (the image pickup camera 6 is moved along the y and z coordinates of figures 1 and 15 using elements 11 and 12),

the image taking apparatus takes an image of the displayed image at each of the plurality of the predetermined positions (see paragraphs 11 and 12),

the image processor generates the processed image with the moire removed by correcting or superposing the plurality of the images taken by the image taking apparatus at the plurality of predetermined positions (see figures 1 and 16 and paragraphs 13 and 14), and

the lightpath changing apparatus operates in a manner of one of a galvanometer mirror and a prism (element 10).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the device to move the image display apparatus 16 instead of the camera 6, because the ability to move a display relative to a camera to remove moiré is known to be within the skill in the art as taught by the z-axis moving mechanism and the y-axis moving mechanism that can move pickup system B by a desired amount, such as 3.5 pickup pixels for example (paragraph 14). In this particular case, moving the pickup camera to a plurality of predetermined positions is equivalent to moving the display apparatus to a plurality of predetermined positions, because both perform the same function of

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displacing the image relative to the camera to achieve the same result of removing moiré.

Response to Arguments

Applicant's arguments filed October 11, 2007 have been fully considered but they are not persuasive. Applicant argues that the prior art does not move the image displaying apparatus to a plurality of predetermined positions. However, the z-axis moving mechanism and the y-axis moving mechanism can move pickup system B by a desired amount, such as 3.5 pickup pixels for example (paragraph 14). Moving the pickup camera is equivalent to moving the display apparatus to a plurality of predetermined positions, because the result of displacing the image relative to the cameras to remove moiré is the same.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Smith whose telephone number is 571 270-1235. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571 272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSS
November 5, 2007


JINGGE WU
SUPERVISORY PATENT EXAMINER